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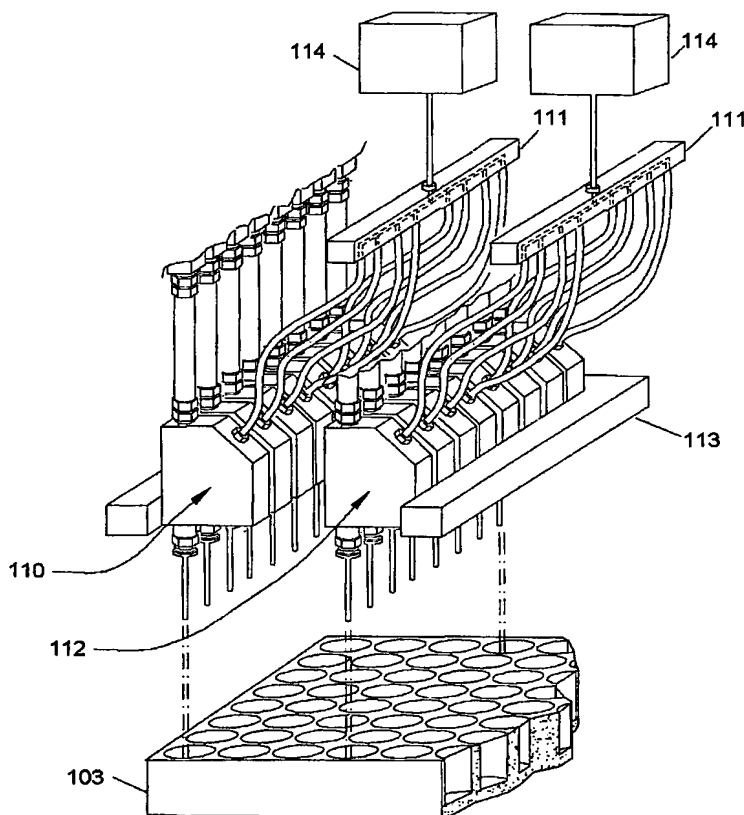
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(54) Title: A SIMULTANEOUS MULTI-COLUMN LIQUID CHROMATOGRAPH FOR DIRECT SAMPLING OF AN ARRAY OF LIQUID SAMPLES



(57) Abstract: An apparatus and method for transferring one or more liquid samples in one or more sample containers to one or more measurement devices. The invention provides a sample transfer device that is small enough to be mounted over a microtiter plate in an array for simultaneous sampling. In a preferred embodiment, each sample transfer device in an array can communicate with a well of the microtiter plate simultaneously, such that in one or more cycles of operation, all of the samples in the wells in the microtiter plate can be chemically analyzed. In the invention, the functions of valve actuator, sampling valve, syringe pump, and transfer device in a liquid chromatograph are all integrated into a single injector mounted at the end of the chromatographic column.

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